



- OpenWrt: embedded OS for home routers
- I've ported NFD, etc as OpenWrt packages
  - but they are only accessible via command line
- Let's make NDN router easy to deploy and use.

Omega2 Status System Network Logout AUTO REFRESH ON

### Status

#### Network

##### IPv4 Upstream

Protocol: DHCP client  
 Address: 192.168.5.5  
 Netmask: 255.255.255.0  
 Gateway: 192.168.5.1  
 DNS 1: 192.168.5.1  
 Expires: 0h 11m 35s  
 Connected: 7h 46m 25s

Device: Wireless Network: Client "+"  
 MAC-Address: 40:A3:6B:C2:44:07

##### IPv6 Upstream

Protocol: Not connected  
 Address: ::  
 Gateway: ::

Device: -

Active Connections 84 / 16384 (0%)

#### Wireless

##### radio0

Type: MAC80211 802.11bgn  
 Channel: 3 (2.422 GHz)  
 Bitrate: 26 Mbit/s

SSID: +  
 Mode: Master  
 BSSID: 42:A3:6B:C2:44:07  
 Encryption: WPA2 PSK (CCMP)  
 Associations: 1

SSID: -  
 Mode: Client  
 BSSID: 40:A3:6B:C2:44:07  
 Encryption: WPA2 PSK (TKIP, CCMP)  
 Associations: 1

#### Associated Stations

Network	MAC-Address	Host	Signal / Noise	RX Rate / TX Rate
Client "+" (wlan0)	E4:95:6E:44:46:A2	?	-78 / 0 dBm	1.0 Mbit/s, 20MHz 1.0 Mbit/s, 20MHz
Master "+" (wlan0-1)	B8:27:EB:20:B5:E2	pi3.lan (192.168.3.121)	-65 / 0 dBm	39.0 Mbit/s, 20MHz, MCS 4 26.0 Mbit/s, 20MHz, MCS 3

#### Omega2 - Power Dock

Battery Voltage Level 4.12 V

IP addresses

NDN status here?

WiFi associations

battery level

- What you'll learn
  - Lua programming
  - OpenWrt build system
  - Unified Configuration Interface (UCI)
- Requirements
  - wired Ethernet port
  - 20GB disk space